Listing of the Claims

1. (currently amended) A stent, comprising:

at least two tubular portions, arranged adjacently in a longitudinal direction of the stent, each said tubular portion comprising a plurality of interconnected, substantially cell-shaped elements, the cell-shaped elements in adjacent tubular portions being aligned coaxially ~~parallel~~ to each other in a longitudinal direction of the stent, the adjacent tubular portions being connected together in the longitudinal direction of the stent by way of at least one first connecting bar that extends substantially parallel to the longitudinal direction,

wherein the elements are of such a configuration that the ends of the elements which are in the longitudinal direction of the stent define an edge contour extending around the stent in a periodic wave-like configuration in a peripheral direction thereof, and wherein the mutually adjoining edge contours of adjacent tubular portions extend around the stent substantially in an in-phase relationship.

2. (previously presented) The stent as set forth in claim 1 wherein the edge contours of the two tubular portions engage into each other in the manner of a tooth configuration.

3. (previously presented) The stent as set forth in claim 1 wherein the two edge contours of one of the tubular portions extend substantially in in-phase relationship with each other or displaced substantially through half a period relative to each other.

4. (previously presented) The stent of claim 1 wherein the first connecting bar connects together elements of the same orientation.

5. (previously presented) The stent of claim 1 wherein the first connecting bar is of a bar-like configuration.

6. (cancelled)

7. (previously presented) The stent of claim 1 wherein there are no more than two first connecting bars for connecting adjacent tubular portions.

8. (previously presented) The stent of claim 1 wherein there are more than two tubular portions and the first connecting bars are arranged in displaced relationship over the length of the stent from one portion to another portion in the peripheral direction of the stent.

9. (previously presented) The stent of claim 1 wherein the elements of at least one portion are connected in the peripheral direction of the stent by way of second connecting bar which are arranged inclinedly with respect to the peripheral direction.

10. (previously presented) A dilation catheter comprising a stent as set forth in claim 1.

11. (previously presented) The stent as set forth in claim 2 wherein the two edge contours of one of the tubular portions extend substantially in in-phase relationship with each other or displaced substantially through half a period relative to each other.

12. (previously presented) The stent of claim 2 wherein the first connecting bar connects together elements of the same orientation.

13. (previously presented) The stent of claim 3 wherein the first connecting bar connects together elements of the same orientation.

14. (previously presented) The stent of claim 11 wherein the first connecting bar connects together elements of the same orientation.

15. (previously presented) The stent of claim 14 wherein the first connecting bar is of a bar-like configuration.

16. (previously presented) The stent of claim 12 wherein the first connecting bar is of a bar-like configuration.

17. (previously presented) The stent of claim 13 wherein the first connecting bar is of a bar-like configuration.

18. (previously presented) The stent of claim 4 wherein the first connecting bar is of a bar-like configuration.

19. (previously presented) The stent of claim 2 wherein the first connecting bar is of a bar-like configuration.

20. (previously presented) The stent of claim 3 wherein the first connecting bar is of a bar-like configuration.

21. (previously presented) The stent of claim 15 wherein the first connecting bar extends substantially parallel to the longitudinal axis of the stent.

22. (previously presented) The stent of claim 16 wherein the first connecting bar extends substantially parallel to the longitudinal axis of the stent.

23. (previously presented) The stent of claim 17 wherein the first connecting bar extends substantially parallel to the longitudinal axis of the stent.

24. (previously presented) The stent of claim 18 wherein the first connecting bar extends substantially parallel to the longitudinal axis of the stent.

25. (previously presented) The stent of claim 5 wherein the first connecting bar extends substantially parallel to the longitudinal axis of the stent.

26. (previously presented) The stent of claim 19 wherein the first connecting bar extends substantially parallel to the longitudinal axis of the stent.

27. (previously presented) The stent of claim 2 wherein the first connecting bar extends substantially parallel to the longitudinal axis of the stent.

28. (previously presented) The stent of claim 3 wherein the first connecting bar extends substantially parallel to the longitudinal axis of the stent.

29. (previously presented) The stent of claim 4 wherein the first connecting bar extends substantially parallel to the longitudinal axis of the stent.

30. (previously presented) The stent of claim 2 wherein there are no more than two first connecting bars for connecting adjacent tubular portions.

31. (previously presented) The stent of claim 27 wherein there are no more than two first connecting bars for connecting adjacent tubular portions.

32. (previously presented) The stent of claim 26 wherein there are no more than two first connecting bars for connecting adjacent tubular portions.

33. (previously presented) The stent of claim 21 wherein there are no more than two first connecting bars for connecting adjacent tubular portions.

34. (previously presented) The stent of claim 22 wherein there are no more than two first connecting bars for connecting adjacent tubular portions.

35. (previously presented) The stent of claim 23 wherein there are no more than two first connecting bars for connecting adjacent tubular portions.

36. (previously presented) The stent of claim 24 wherein there are no more than two first connecting bars for connecting adjacent tubular portions.

37. (previously presented) The stent of claim 25 wherein there are no more than two first connecting bars for connecting adjacent tubular portions.

38. (previously presented) The stent of claim 28 wherein there are no more than two first connecting bars for connecting adjacent tubular portions.

39. (previously presented) The stent of claim 29 wherein there are no more than two first connecting bars for connecting adjacent tubular portions.

40. (previously presented) The stent of claim 6 wherein there are no more than two first connecting bars for connecting adjacent tubular portions.

41. (previously presented) The stent of claim 33 wherein there are more than two tubular portions and the first connecting bars are arranged in displaced relationship over the length of the stent from one portion to another portion in the peripheral direction of the stent.

42. (previously presented) The stent of claim 35 wherein there are more than two tubular portions and the first connecting bars are arranged in displaced relationship over the length of the stent from one portion to another portion in the peripheral direction of the stent.

43. (previously presented) The stent of claim 36 wherein there are more than two tubular portions and the first connecting bars are arranged in displaced relationship over the length of the stent from one portion to another portion in the peripheral direction of the stent.

44. (previously presented) The stent of claim 37 wherein there are more than two tubular portions and the first connecting bars are arranged in displaced relationship over the length of the stent from one portion to another portion in the peripheral direction of the stent.

45. (previously presented) The stent of claim 40 wherein there are more than two tubular portions and the first connecting bars are arranged in displaced relationship over the length of the stent from one portion to another portion in the peripheral direction of the stent.

46. (previously presented) The stent of claim 7 wherein there are more than two tubular portions and the first connecting bars are arranged in displaced relationship over the length of the stent from one portion to another portion in the peripheral direction of the stent.

47. (previously presented) The stent of claim 8 wherein the first connecting bar is displaced by at least half a period of the edge contour.

48. (currently amended) The stent of claim 41 wherein the first connecting bar is displaced by at least half a period of the edge contour.

49. (previously presented) The stent of claim 42 wherein the first connecting bar is displaced by at least half a period of the edge contour.

50. (previously presented) The stent of claim 43 wherein the first connecting bar is displaced by at least half a period of the edge contour.

51. (previously presented) The stent of claim 44 wherein the first connecting bar is displaced by at least half a period of the edge contour.

52. (previously presented) The stent of claim 45 wherein the first connecting bar is displaced by at least half a period of the edge contour.

53. (previously presented) The stent of claim 46 wherein the first connecting bar is displaced by at least half a period of the edge contour.

54. (previously presented) The stent of claim 41 wherein the elements of at least one portion are connected in the peripheral direction of the stent by way of second connecting bars which are arranged inclinedly with respect to the peripheral direction.

55. (previously presented) The stent of claim 8 wherein the elements of at least one portion are connected in the peripheral direction of the stent by way of second connecting bars which are arranged inclinedly with respect to the peripheral direction.

56. (previously presented) The stent of claim 9 wherein the second connecting means extend in an S-shape, wherein second connecting bars facing in the same peripheral direction of elements in mutually adjoining relationship in the longitudinal direction of the stent are arranged inclinedly in opposite relationship with respect to the peripheral direction.

57. (previously presented) The stent of claim 54 wherein the second connecting means extend in an S-shape, wherein second connecting bars facing in the same peripheral direction of elements in mutually adjoining relationship in the longitudinal direction of the stent are arranged inclinedly in opposite relationship with respect to the peripheral direction.

58. (cancelled)